

**NEW RECORDS OF TRAPEZIID CRABS (CRUSTACEA: BRACHYURA: TRAPEZIIDAE) FROM THE CORAL SEA AND NORTHERN TASMAN SEA.** *Memoirs of the Queensland Museum* 45(2): 204 2000.- Trapeziid crabs belonging to *Tetralia* and *Trapezia* are obligate symbionts of reef-building corals, while species of *Quadrella* inhabit antipatharians, alcyonaceans, gorgonians and azooxanthellate corals. The trapeziids inhabiting the Coral Sea region were studied by Castro (1997). Examination of collections deposited in the Australian Museum, Sydney (AM), Queensland Museum, Brisbane (QM) and the Muséum National d'Histoire Naturelle, Paris (MNHN) has revealed the presence of additional species for the region. Two species are recorded for the first time from eastern Australia and two from New Caledonia. Five species of *Tetralia*, twelve of *Trapezia* and three of *Quadrella* are now known from the Coral Sea and northern Tasman Sea. Only one wide-ranging Indo-West Pacific species, *Trapezia tigrina* Eydoux & Souleyet, 1848, remains unknown from the region.

***Quadrella coronata* Dana, 1852**

For synonymy see Castro, 1999a: 95.

AMP17448, ♂, ♀, New Caledonia, Îlot Amadée, 30-35m, 12 Sept. 1929, B. Conseil & G. Bangibout. New record for New Caledonia. The only previous Coral Sea record was from southwestern Vanuatu (Castro, 1997). The species is known from across the Indian Ocean and the western Pacific (Castro, 1999a). To additional species, *Q. maculosa* Alcock, 1898 and *Q. serenei* Galil, 1986 (the Vanuatu specimen referred to as *Q. maculosa* by Castro, 1997; see Castro, 1999a: 96), is also known from the Coral Sea.

***Tetralia vanninii* Galil & Clark, 1988**

For synonymy see Castro, 1999a: 103.

AMP17232, 2♂, Queensland, North East Cay, Herald Group, 17°20'S, 148°28'E, 6 Nov. 1964, D.F. Mc Michael & J.C. Yaldwyn; QMW25176, ♂, ♀, Wreck Reef, Porpoise Cay, 22°17'S, 155°25'E, outer reef slope, 12 m, 10 May 1988, J. Short & S. Mullers; AMP39689, ♂, ♀, Sugarloaf Island, Lord Howe Island, 31°30.2'S, 159°04.3'E, 17m, 27 Dec. 1979, N. Coleman. First record for the Coral Sea region. The species is found through most of the Indo-West Pacific region.

***Trapezia formosa* Smith, 1869**

For synonymy see Castro, 1998: 178.

AMP38228, ♂, ♀, Elizabeth Reef, reef flat near 'Yoshin Maru Iwaki' wreck, 29°55.8'S, 159°01.3'E, small coral head, J.K. Lowry & R.T. Springthorpe. First record from eastern Australian waters. The only previous Coral Sea record was from the Chesterfield Islands (Castro, 1997). The species is widely distributed across the Indo-West Pacific and eastern Pacific regions (Castro, 1998).

***Trapezia lutea* Castro, 1997**

*Trapezia lutea* Castro, 1997: 84-87, figs 2C, D, 3A-C, pls 2C, 5A.

QMW25186, 2♂, ♀, Queensland, Flinder's Reef, off Cape Moreton, 26°59'S, 153°29'E, P.J.F. Davie & J. Short. First record from eastern Australian waters. Previous Coral Sea records were from New Caledonia and the Loyalty and Chesterfield Islands (Castro, 1997). The species is widely distributed through most of the Indo-West Pacific region; first recorded from Indonesia by Castro (1999b: 52).

***Trapezia punctipes* Castro, 1997**

*Trapezia punctipes* Castro, 1997: 87-89, figs 4A-C, pl. 2D.

MNHN-B26249, ♀, New Caledonia, Baie St. Vincent, 22E25'S, 166E50'E, Aug. 1961, Y. Plessis. The species was described from material collected at Lizard Island, northern Queensland. This is the first record from New Caledonia. It is generally uncommon; known from the Andaman Sea coast of Thailand to the Mariana Islands and Fiji (Castro, 1999b).

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